Energy Conservation: MCPS -- No. 796222

Category Agency Planning Area Relocation Impact MCPS Public Schools Countywide Date Last Modified Previous PDF Page Number Required Adequate Public Facility May 21, 2004 7-276 (02 App) NO

EXPENDITURE SCHEDULE (\$000)

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Cost Element	Total	Thru FY03	Est. FY04	Total 6 Years	FY05	FY06	FY07	FY08	FY09	FY10	Beyond 6 Years
	Total	F103	F 1 04	o rears	F105	F100	F1U/	F100	F109	FIIU	0 Tears
Planning, Design											
and Supervision	950	0	30	920	40	40	510	110	110	110	0
Land											
Site Improvements											
and Utilities											
Construction	7,037	356	281	6,400	450	450	1,000	1,500	1,500	1,500	0
Other	490	0	10	480	10	10	190	90	90	90	0
Total	8,477	356	321	7,800	500	500	1,700	1,700	1,700	1,700	0
FUNDING SCHEDULE (\$000)											
G.O. Bonds	8,477	356	321	7,800	500	500	1,700	1,700	1,700	1,700	0
Contributions	0	0	0	0	0	0	0	0	0	0	0
ANNUAL OPERATING BUDGET IMPACT (\$000)											
Maintenance				-1,342	-5	-55	-214	-285	-356	-427	0
Energy				-6,823	-137	-274	-1,069	-1,425	-1,781	-2,137	0
Net Impact				-8,165	-142	-329	-1,283	-1,710	-2,137	-2,564	0
Workyears				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION

The MCPS Energy Conservation Program has saved more than \$34 million since the project began in FY 1978. The project has been reviewed by the Interagency Committee on Energy and Utility Management. The program is designed to reduce energy consumption by improving building mechanical systems, retrofitting building lighting and control systems, and controlling HVAC equipment through computer management systems. Computer systems currently control the operation of most MCPS facilities.

New and modernized schools are built with the latest technological advances to achieve higher levels of energy savings. Energy conservation staff review new construction mechanical guidelines and designs. Staff also inspect and perform computer diagnostics of HVAC installations for operational efficiency and review certain aspects of indoor air quality. An FY 2001 Supplemental Appropriation of \$1.5M was approved for lighting ballast replacement. Funds approved in FY 2002 were approved to continue this program. In FY 2001 and beyond, \$439,000 for staff charges were migrated from the Capital Budget to the Operating Budget.

An FY 2003 appropriation was approved to continue to reduce energy consumption by improving mechanical systems, retrofitting building lighting and control systems, and controlling HVAC equipment in MCPS facilities. An FY 2004 appropriation was approved to continue this project at its current level of effort.

An FY 2005 appropriation was approved to continue this project. The increase in expenditures, beyond the level of effort for this project for FY 2005 and beyond, is due to the need to modernize energy management systems facing obsolescence. Of the over 170 installed energy management systems, many were installed in the 1980's and are appropriation the end of their life-cycle, and replacemnt parts are no longer available. The approved FY 2005 appropriation and the FY 2006 appropriation to be requested include \$250K to complete pilot projects and select replacement technologies, including network and we interfaces. The expenditures shown for FY 2007 will achieve an economy of scale by bidding a large package of projects together. Expenditures shown over the six-year period will be used to complete the countywide lighting modernization program at the remaining 31 facilities. Expenditures shown for FY 2008-2010 will be used for the ongoing life-cycle replacement costs of energy management and control systems at over 170 facilities, to support the extension of the program to the remaining facilities, to support a planned program of water conservation projects, and to aviod future backlog in this area.

*This project will continue indefintely.

FISCAL NOTE

State Reimbursement: not eligible

APPROPRIATION AND								
EXPENDITURE DAT	Α							
Date First Appropriation	FY79	(\$000)						
Initial Cost Estimate		1,200						
First Cost Estimate								
Current Scope	FY96	8,061						
Last FY's Cost Estimate		2,142						
Present Cost Estimate		8,477						
Appropriation Request	FY05	500						
Appropriation Req. Est.	FY06	500						
Supplemental								
Appropriation Request	FY04	0						
Transfer		0						
Cumulative Appropriation		677						
Expenditures/								
Encumbrances		236						
Unencumbered Balance		441						
Partial Closeout Thru	FY02	17,766						
New Partial Closeout	FY03	181						
Total Partial Closeout		17,947						

COORDINATION Montgomery College County Government Comprehensive Facilities Plan Interagency Committee - Energy and Utilities Management MCPS Resource Conservation Plan

County Code 8-14a

